



MD 182 IS ASSUMED TO RUN
IN A NORTH/SOUTH DIRECTION

EXISTING SIGNS
TO BE REMOVED

EXISTING SIGNS

PROPOSED SIGNS

PROPOSED SIGNALS

PROPOSED LED SIGNALS

EXISTING SIGNALS
TO BE REMOVED

NEMA PHASING

FLASHING
OPERATION

NOTE:
PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

- CONSTRUCTION DETAILS**
- A. REMOVE EXISTING CONCRETE SIDEWALK AND INSTALL CONCRETE FOUNDATION WITH 10 FT. STEEL PEDESTAL POLE WITH BREAKAWAY BASE, COUNTDOWN PEDESTRIAN SIGNAL HEAD SECTION, R10-4(1) SIGN AND NAVIGATOR PUSHBUTTON STATION WITH BLACK FACE PLATE OPTION "A" SIGN THEN REPLACE CONCRETE SIDEWALK. (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND).
 - B. REMOVE EXISTING SIGNAL HEADS AND HARDWARE FROM SPAN WIRE AND INSTALL NEW TRAFFIC SIGNAL HEADS AND HARDWARE IN THE SAME LOCATION WITH 1/4 IN. TETHER WIRE BETWEEN STRAIN POLES FOR NEW SIGNAL HEADS AND SIGNS.
 - C. INSTALL HANDHOLE.
 - D. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
 - E. INSTALL 24 IN. WHITE PERMANENT THERMOPLASTIC PAVEMENT MARKING FOR STOP LINE.
 - F. INSTALL 6 FT. X 22 FT. QUADRUPOLE LOOP DETECTOR (3-6-3 TURNS) AND LEAD-INS.
 - G. INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT. (FOR DETECTOR WIRE SLEEVE).
 - H. REMOVE EXISTING PEDESTRIAN SIGNAL AND HARDWARE FROM STRAIN POLE COMPLETELY.
 - J. REMOVE EXISTING PEDESTRIAN SIGNALS, PUSHBUTTON AND SIGNS AND HARDWARE FROM STRAIN POLE COMPLETELY.
 - K. USE EXISTING HANDHOLE.
 - L. USE EXISTING CONDUIT.
 - M. USE EXISTING BASE MOUNTED CABINET AND CONTROLLER, INSTALL SIGNAL CABLES INSIDE CABINET WITH LABELS AND TAGS AND TERMINATE.
 - N. INSTALL DETECTABLE WARNING SURFACE.
 - O. USE EXISTING STRAIN POLE AND INSTALL CONDUIT BEND IN EXISTING FOUNDATION.
 - P. INSTALL SHIELD ASSEMBLY SIGN (GROUND MOUNTED) ONTO 4 IN. X 6 IN. WOOD POST.
 - Q. USE STRAIN POLE, INSTALL SHIELD ASSEMBLY SIGN.
 - R. REMOVE EXISTING SIGNS FROM WOOD SUPPORT AND RELOCATE THEM AS SHOWN ON PLAN. THEN PLACE NEW W11-2 (36 IN. X 36 IN.) SIGN ON NEW 4 IN. X 6 IN. WOOD POST REPLACING EXISTING SIGN.
 - S. REMOVE EXISTING CONCRETE SIDEWALK BLOCK, INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED, THEN REPLACE CONCRETE SIDEWALK.
 - T. REMOVE EXISTING SIGN AND REPLACE WITH W11-2 (36 IN. X 36 IN.) ON EXISTING WOOD SUPPORT.
 - U. REMOVE EXISTING PAVEMENT MARKING (CROSSWALK).
 - V. INSTALL 12 IN. WHITE PERM. THERMO. PAVEMENT MARKING FOR CROSSWALK.
- GEOMETRIC LEGEND**
- EXISTING
 - AREA OF SIDEWALK TO BE REMOVED AND REPLACED
- UTILITY LEGEND**
- SD - STORM DRAIN
 - G - GAS MAIN
 - W - WATER MAIN
 - SAN - SEWER MAIN
 - E - ELECTRIC CABLES
 - A - AERIAL CABLES
 - T - TELEPHONE CABLES
 - FO - FIBER-OPTIC

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
2. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
4. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
5. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
6. PAVEMENT MARKINGS DETAILED ARE PROPOSED AND SHALL BE INSTALLED BY THE SIGNAL CONTRACTOR IN ACCORDANCE WITH MD-SHA STANDARDS.

SABRA, WANG & ASSOCIATES, INC.
1504 JOH AVENUE
SUITE 180
BALTIMORE, MD 21227
(410) 737-6584
WWW.SABRA-WANG.COM

SHA STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION	
MD 182 (LAYHILL ROAD) AND MIDDLEVALE LANE LAYHILL, MARYLAND	
TRAFFIC SIGNAL PLAN	
SCALE 1"=20'	DATE 5/19/1993 CONTRACT NO. AW453501385
DESIGNED BY R. R. ZACHERL	COUNTY MONTGOMERY
DRAWN BY S. R. BARNOWSKI	LOGMILE 15018201.55
CHECKED BY	TIMS NO. H093
FAP NO. CMG-STPG-000S(133)	TOD NO.
TS NO. 3275B	DRAWING P5G OF P001
SHEET NO. 1 OF 2	

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